

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A radio telephone system, in which a ~~plurality of slave~~ telephone sets is connected to a public telephone network through radio communication with a master telephone set, wherein:

a line adopted to provide a plurality of independent communications is connected to the public telephone network side of the master telephone set;

the slave telephone set connecting a plurality of telephone sets;

a plurality of unit IDs are registered in each of the ~~slave telephone sets~~ each unit ID identifying its slave telephone set, and said the plurality of unit IDs are also registered in the master telephone set;

the slave telephone set independently communicating over a plurality of channels via the master telephone set with the public telephone network,

and when a communication request is issued from a telephone set from said plurality of telephone sets during communication with the master telephone set via the radio communication channel using one unit ID, the slave telephone set establishes a communication with the public telephone network by concurrently connecting the master telephone set via the radio communication channel using another unit ID.

2-3. (Canceled).

4. (Currently Amended) The radio telephone system according to claim ~~1~~^{or 2}, wherein each slave telephone set is capable of utilizing both analog radio communication and also digital communication.

5. (Canceled).

6. (Currently Amended) A radio telephone communications method, in which a ~~plurality of~~ slave telephone sets is connected to a public telephone network through radio communication with a master telephone set and a plurality of unit IDs are preliminarily registered in each of the slave telephone sets, and the plurality of unit IDs are also registered in the master telephone set, the method comprising:

in response to hooked off of a first telephone set connected to the slave telephone set to make a telephone call, transmitting a line connection request signal and selected unit ID among the preliminarily registered unit IDs on a control channel to the master telephone set;

in response to receipt of the line connection request and the unit ID, checking whether the received unit ID is of its own slave telephone set by the master telephone set;

if the unit IDs are identical, finding a vacant communication channel and assigning this vacant communication channel to the slave telephone set;

in response to the assignment of communication channel, checking whether that communication channel is vacant and, if it is vacant, transmitting a confirmation signal by the slave telephone set; and

in response to receipt of the confirmation signal from the slave unit, executing operation of line connection to the public telephone network by the master telephone set,

wherein the slave telephone set simultaneously communicates over a plurality of channels via the master telephone set with the public telephone network, and when the communication request is issued from the telephone set during communication with the master telephone set via the radio communication channel using one unit ID, the slave telephone set establishes a communication with the public telephone network by connecting the telephone set via the radio communication channel using another unit ID.

7. (Previously Presented) The radio telephone system according to claim 6, wherein when a second telephone set is hooked off to make a telephone call while the first telephone set is in communication, a line connection request and the unit ID are transmitted on the control channel to the unit ID; and the line connection like for the first telephone set is executed to obtain connection between the second telephone set and the public telephone network line.

8. (Previously Presented) The radio telephone system according to claim 6, wherein when a second telephone set is hooked off to discontinue its communication in the state that both the first and second telephone sets are in communication, a communication “off” request is transmitted from the second telephone set to the master telephone set; and

in response to receipt of the communication “off” signal, the master telephone set transmits a communication “off” signal to the second telephone set, thus ending the communication and restore the second telephone set to the stand-by state.

9. (Original) The radio telephone system according to claim 6, wherein when the first telephone set is hooked on, a communication “off” request is transmitted from the first telephone set to the master telephone set; and

in response to receipt of the communication “off” request, the master telephone set transmits a communication “off” signal to the first telephone set, thus ending the communication and restore the telephone set to the stand-by state.

10. (Currently Amended) A radio telephone communications method, in which a plurality of slave telephone sets is connected to a public telephone network through radio communication with a master telephone set and a plurality of unit IDs are preliminarily registered in each of the slave telephone sets, and the plurality of unit IDs is also registered in a plurality of master telephone sets, the method comprising including:

responsive to arrival of a telephone call, informing the call arrival to the slave telephone set and transmitting its unit ID by the master telephone set;

checking whether the transmitted unit ID matches at least one of the plurality of registered unit IDs for the slave telephone set, selecting one of the plurality of unit IDs registered if a match is determined, and transmitting the selected unit ID to the master telephone set by the slave telephone set;

finding a vacant communication channel for communication and informing the found communication channel to the slave telephone set by the master telephone set;

checking whether the received communication channel is vacant and if it is vacant, transmitting a confirmation signal by the slave telephone set; and

sending out via the communication channel an instruction to ring the bell to the slave telephone set when state ready for communication is brought about,

wherein the slave telephone set is adapted to simultaneously communicate over a plurality of channels via the master telephone set with the public telephone network, and when the slave unit receives a communication request from a telephone set connected to the slave unit during communication with the master telephone set via the radio communication channel using one unit ID, the slave telephone set establishes a communication with the public telephone network by connecting the telephone set via the radio communication channel using another unit ID.

11. (Original) The radio telephone system according to claim 10, wherein the master telephone set sends out via the communication channel an instruction to ring the bell to the slave telephone set.

12. (Currently Amended) A radio telephone system, in which a ~~plurality of~~ slave telephone sets is connected to a public telephone network through radio communication with a master telephone set, the system comprising:

a line adopted to provide a plurality of simultaneous communications is connected to the public telephone network side of the master telephone set;

the slave telephone set connecting a plurality of telephone sets;

~~a plurality of slave telephone sets, each slave telephone set with a plurality of unit IDs registered in the slave telephone set, each unit ID identifies its slave telephone set; a master telephone set with the plurality of unit IDs~~ are also registered in the master telephone set;

means for transmitting a line connection request signal and selected unit ID among the ~~preliminarily~~ registered unit IDs on a control channel to the master telephone set, in response to hooked off of a first telephone set connected to the slave telephone set to make a telephone call;

means for checking by the master telephone set whether the received unit ID is of the master telephone set's slave telephone, in response to receipt of the line connection request and the unit ID;

means for finding a vacant communication channel and assigning this vacant communication channel to the slave telephone set, if the unit ID is of the master telephone's slave telephone;

means for checking whether the assigned communication channel is vacant and, if it is vacant, transmitting a confirmation signal by the slave telephone set, in response to the assignment of communication channel; and

means for executing operation of line connection to the public telephone network by the master telephone set, in response to receipt of the confirmation signal from the slave unit,

the slave telephone set simultaneously communicating over a plurality of channels via the master telephone set with the public telephone network,

and when a communication request is issued from a telephone set from said plurality of telephone sets during communication with the master telephone set via the radio communication channel using one unit ID, the slave telephone set establishes a communication with the public telephone network by connecting the telephone set via the radio communication channel using another unit ID.

13. (Currently Amended) A radio telephone system, in which a plurality of slave telephone sets is connected to a public telephone network through radio communication with a master telephone set, wherein:

a line of a plurality of simultaneous communications is connected to the public telephone network side of the master telephone set;

the slave telephone set connects a plurality of telephone sets;

a plurality of unit IDs are registered in each of the slave telephone sets, and the plurality of unit IDs are also registered in a plurality of master telephone sets,

the slave telephone set is capable of simultaneous communications of a plurality of channels via the a master telephone set from the plurality of mater telephone sets with the public telephone network,

and when the communication request is issued from a telephone set from said plurality of telephone sets during communication with the master telephone set via the radio communication channel using one unit ID, the slave telephone set makes communication with the public telephone network by connecting the telephone set via the radio communication channel using another unit ID.

14. (Previously Presented) The radio communication system according to claim 13, wherein each slave telephone set is capable of utilizing both analog radio communication and also digital communication.

15. (Currently Amended) A radio telephone system, in which a plurality of slave telephone sets is connected to a public telephone network through radio communication with a master telephone set, wherein:

a line of a plurality of simultaneous communications is connected to the public telephone network side of the master telephone set;

the slave telephone set connects a plurality of telephone sets;

a plurality of unit IDs are preliminarily registered in each of the slave telephone sets, and the plurality of unit IDs are also registered in the master telephone set and whenever each slave telephone set makes radio communication with the master telephone set, a unit ID corresponding to the radio communication is selected, and the plurality of unit IDs registered in each slave telephone set is registered in a plurality of master telephone sets

the slave telephone set is capable of simultaneous communications of a plurality of channels via the master telephone set with the public telephone network, and when the communication request is issued from a telephone set from said plurality of telephone sets during communication with the master telephone set via the radio communication channel using one unit ID, the slave telephone set makes communication with the public telephone network by connecting the telephone set via the radio communication channel using another unit ID.

16. (Previously Presented) The radio communication system according to claim 15, wherein each slave telephone set is capable of utilizing both analog radio communication and also digital communication.